NRC FORM 699 (9-2003) U.S. NUCLEAR REGULATORY COMMISSION

CONVERSATION RECORD

DATE: 06/28/2007

TIME: 9:00am

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU: Stefan Anton, Indresh Rampall, Debu Majumdar, Evan Rosenbaum

TELEPHONE NO.: 856-797-0900

ORGANIZATION: Holtec International

SUBJECT: License Amendment Request - HI-STORM 100 Amendment Request Thermal items

TYPE OF CONVERSATION:
- ☐ VISIT
- ☐ CONFERENCE
- ☑ TELEPHONE
  - ☐ INCOMING
  - ☑ OUTGOING

SUMMARY *(Continue on Page 2)*

NRC Attendees: Christopher Regan, Michael Waters, Jorge Solis

NRC called Holtec International to continue dialogue with respect to outstanding issues in the thermal analyses for Amendment 4. The goal was for the staff to convey proposed solutions to the outstanding thermal issues The staff proposed the following solutions and actions the staff will take and followup changes Holtec should make to the application materials:

1) In light of the staffs concerns regarding Holtec analysis supporting vacuum drying at heat loads up to 28.74Kw. The staff proposes to impose a vacuum drying time limit for heat loads between 23Kw and 28.74kw. for fuel with certain burnup. Below 23kw there will be no time limits imposed. The staff stated this will be consistent with TS used for other vendor casks. The staff requested Holtec to proposed a TS in the form and using the language they develop. Holtec agreed to propose a TS. It was understood by both parties that typically casks with higher heat loads dry more quickly than casks with lower heats load so imposition of the time limits would, from a practical standpoint, not necessarily place a stricter requirement on eventual users. The specific time limit will be determined by the staff soon but estimated time from would be in excess of 48 hours.

2) Holtec should remove FSAR Section 4.5.1 and replace it with Section 4.5.1 of the HI-STORM 100 FSAR Revision 4 dated 04/10/06. This should include incorporation of applicable results Tables (Table 4.5.2).

3) Holtec, in Section 4.5.3 of FSAR Rev 3.K. should include the entire text of Section 4.5.1.1.4 of FSAR Rev 4.

4) Holtec should remove, in its entirety, the first paragraph of FSAR Rev 3.K. Section 4.5.5. The staff expressed concerns that this paragraph was not factually accurate, in that the staff had reviewed the subject 3D thermal models and had not reached a conclusion that the analyses were adequate.

5) Holtec should update Section 4.5.5 of FSAR Rev. 3.K to include reference results from the previously approved FSAR.

Continue on Page 2

ACTION REQUIRED: None

NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE	DATE
C. Regan		06/28/2007

ACTION TAKEN: None

TITLE OF PERSON TAKING ACTION	SIGNATURE OF PERSON TAKING ACTION	DATE

CONVERSATION RECORD (Continued)

SUMMARY *(Continue on Page 3)*

6) Holtec should correct TS LCO 3.1.4. The hand written markup was unclear regarding AND and OR statements. Holtec agreed to provide clarification of the markup. There was a mutual understanding of the clarification needed.

7) The staff was concerned with ensuring an MPC wall temperature below 125degF. and asked for clarification of how this is ensured by users of the design. Holtec explained that water in the annular gap is monitored for flow and outlet temperature to ensure the wall temperature limit is not exceeded. This has been demonstrated through several dry runs and witnessed by NRC inspectors on-site. However, due to the staffs concern Holtec agreed to include in Chapter 8 of the FSAR additional clarity of the steps to be taken regarding annular gap cooling and what and how the 125degF MPC wall temperature limit is maintained.

Holtec committed to provide revised information by 07/02/07 with a followup conference call to be scheduled.

Continue on Page 3